

DISCOVER-AQ
HSRL Data Summary

FLIGHT: Morning science flight (1 of 2)

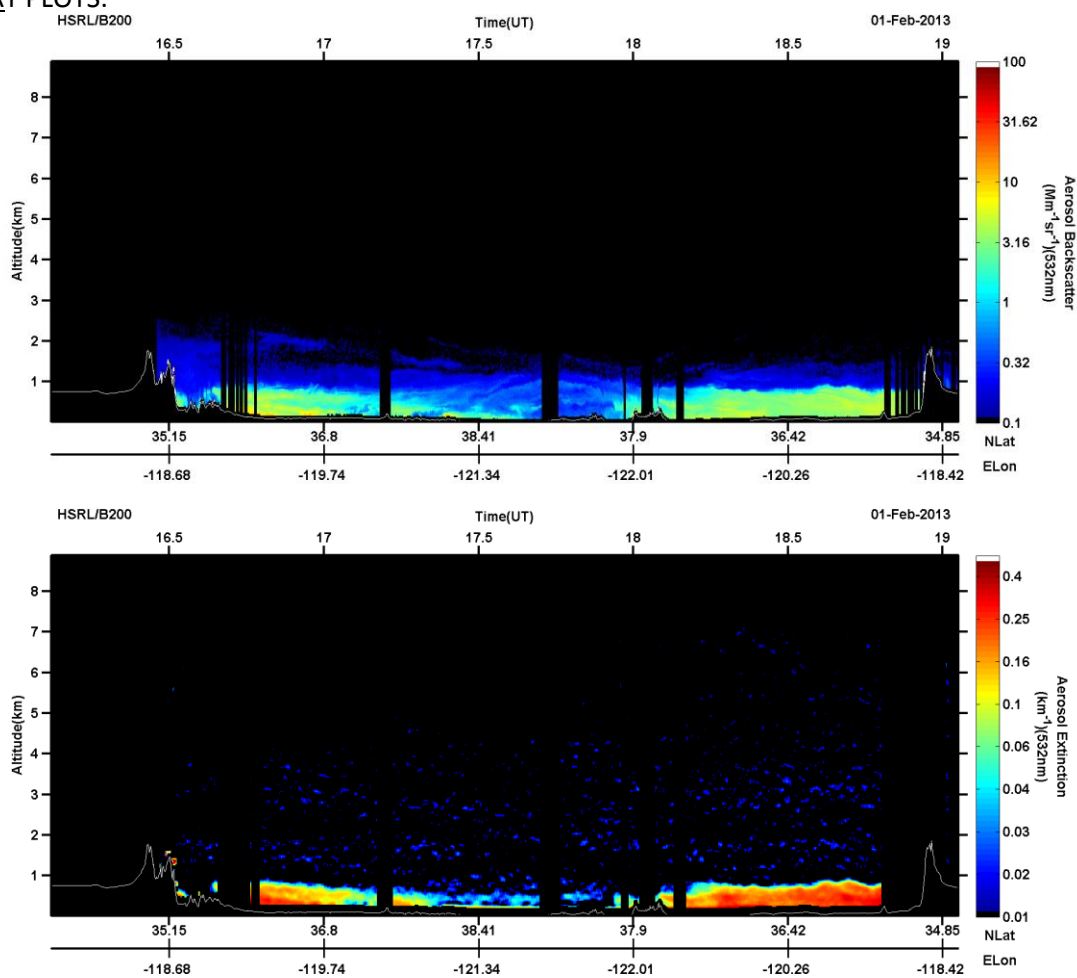
DATE: Feb 01, 2013

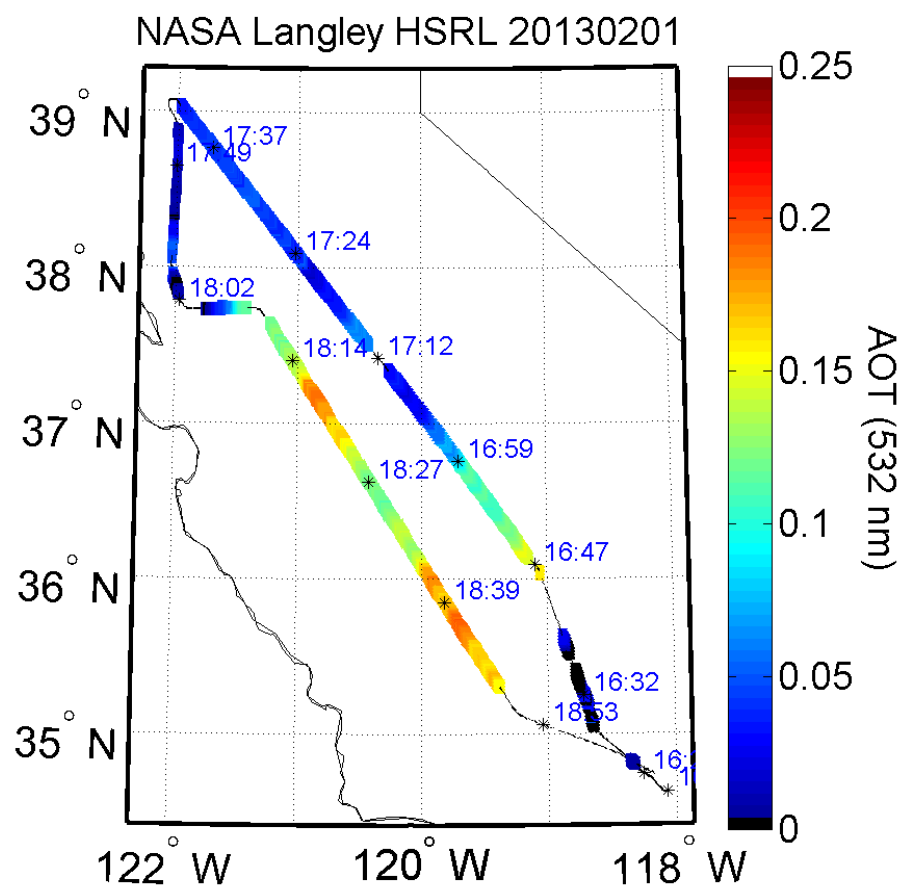
DURATION: 2.9 hours

SUMMARY:

New pattern to fly to the north end of the SJV for the San Francisco Air Quality Board. Instrument operated nominally. AOT much higher on W side and S end of valley.

SUMMARY PLOTS:



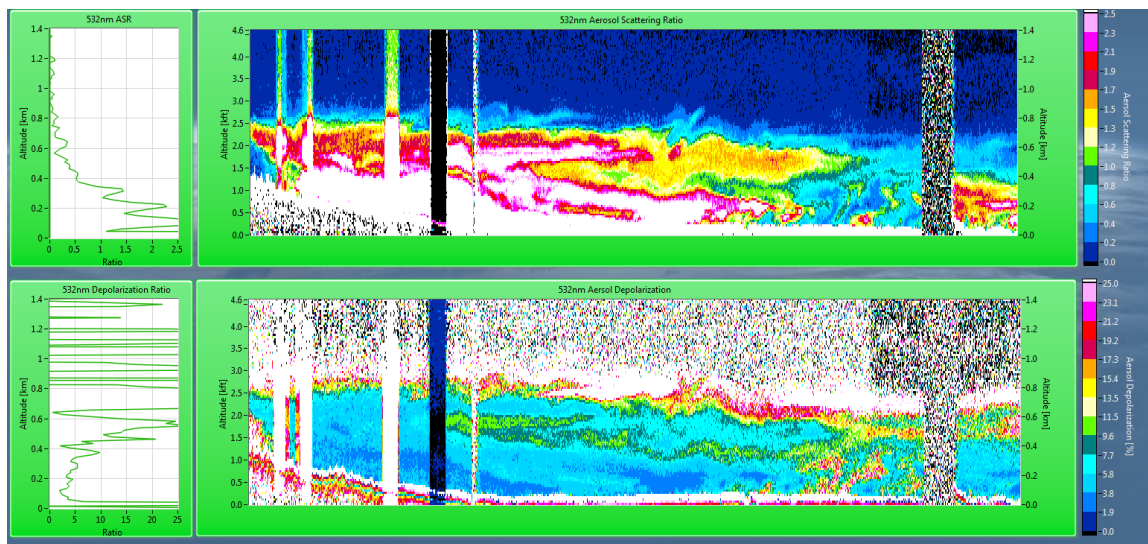


HSRL2 Flight Notes

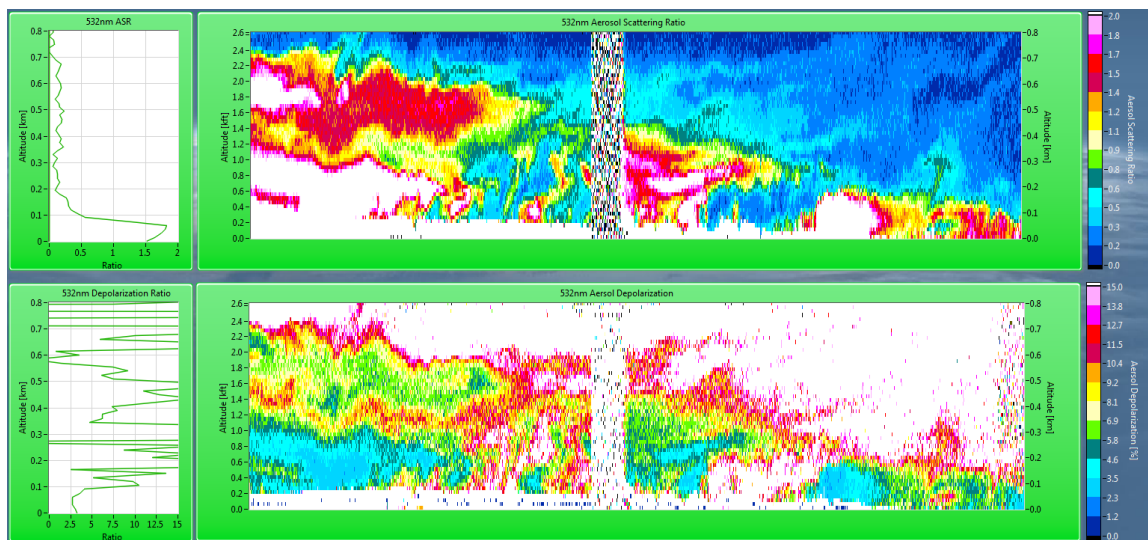
Date: 2/1/2013

Flight # 1

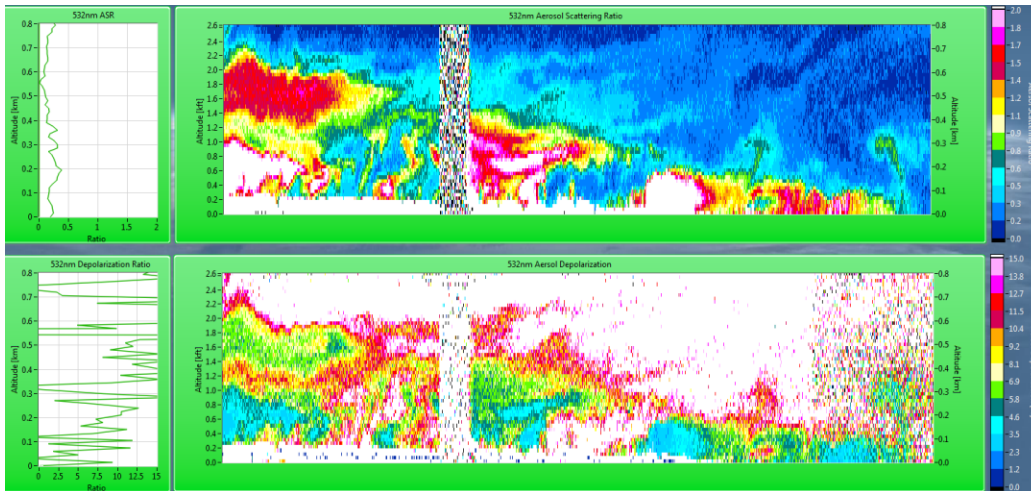
- Takeoff 16:15UTC
- Manually minimized the 355nm perpendicular signal before calcs.
- Halfway between Fresno and Sacramento



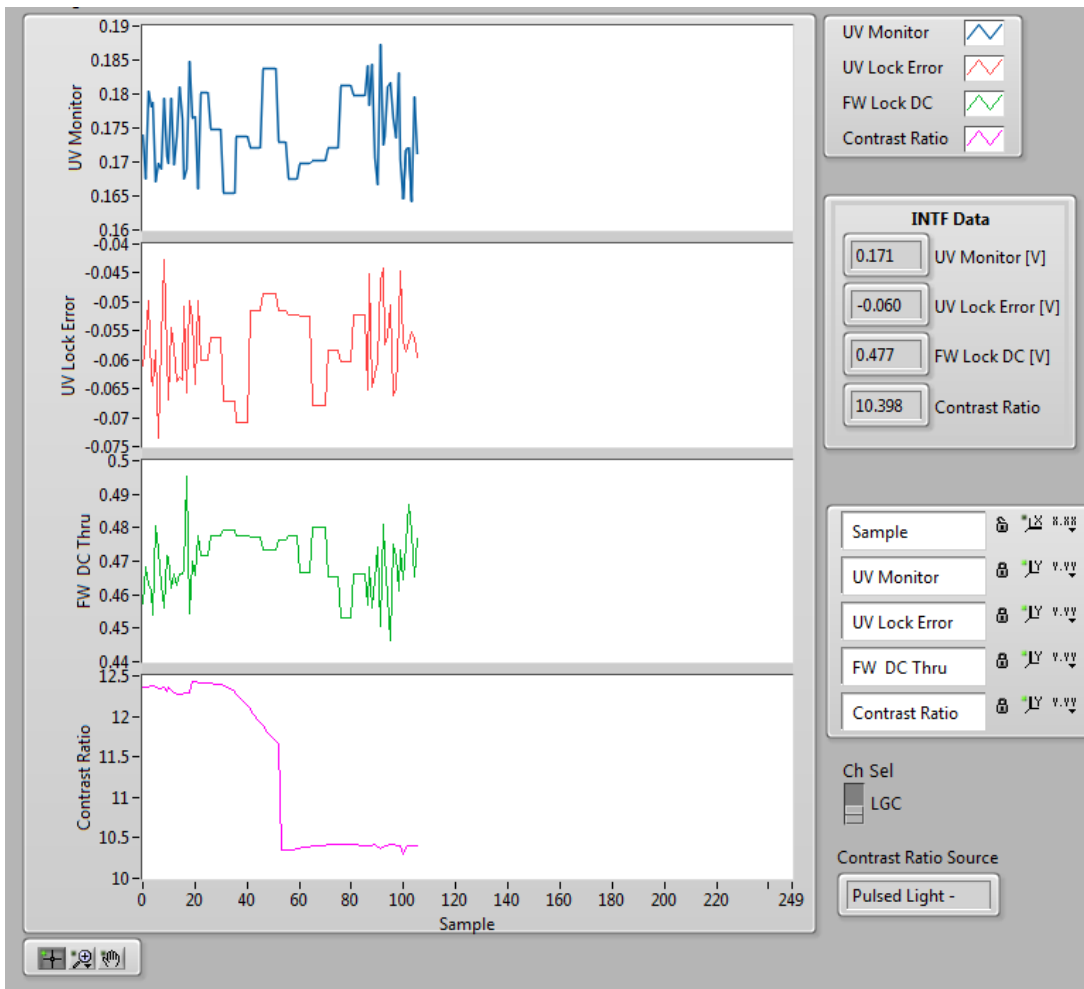
- Over Sacramento



- 12 miles south of Williams



- Contrast ratio change from PGR position of 22.5 deg back to 0 deg (relative position)



- INTF in severe tilt for descent 19:00UTC

FLIGHT: Morning science flight (2 of 2)

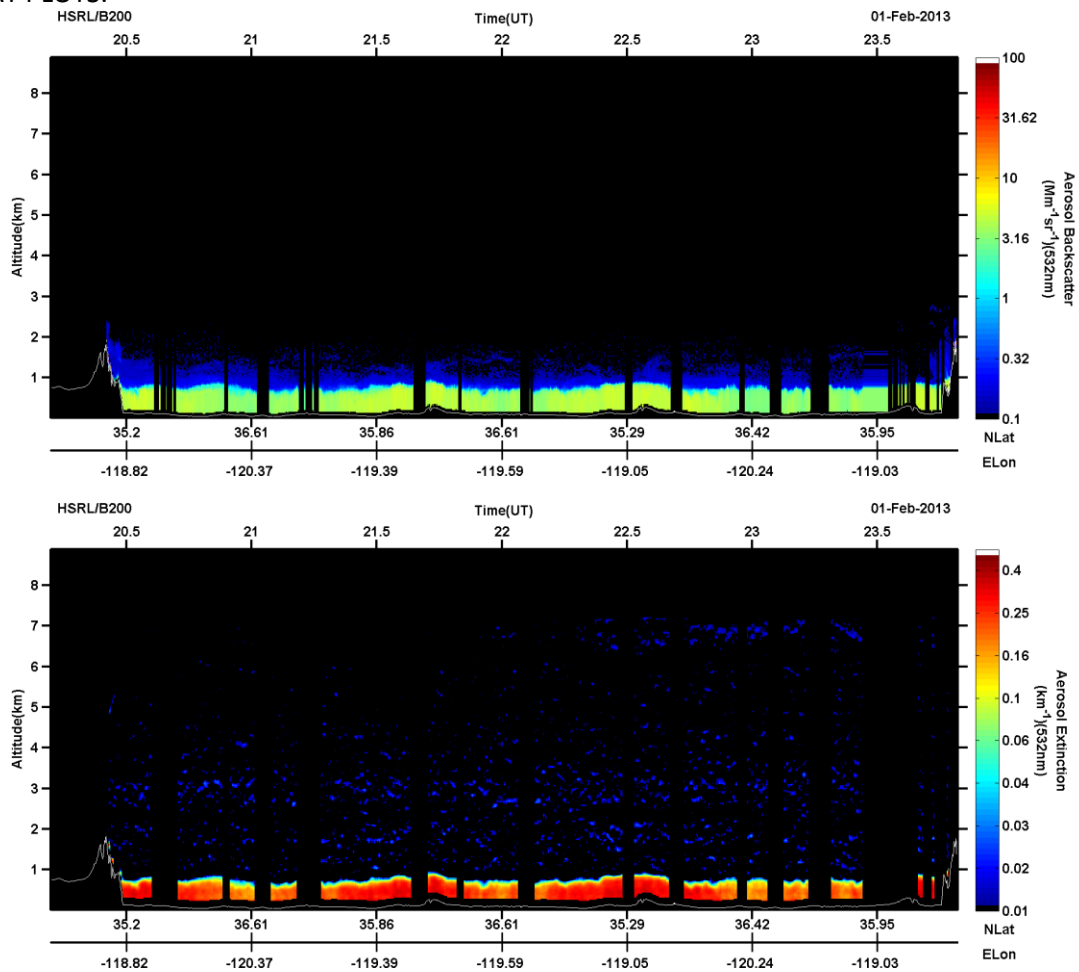
DATE: Feb 1, 2013

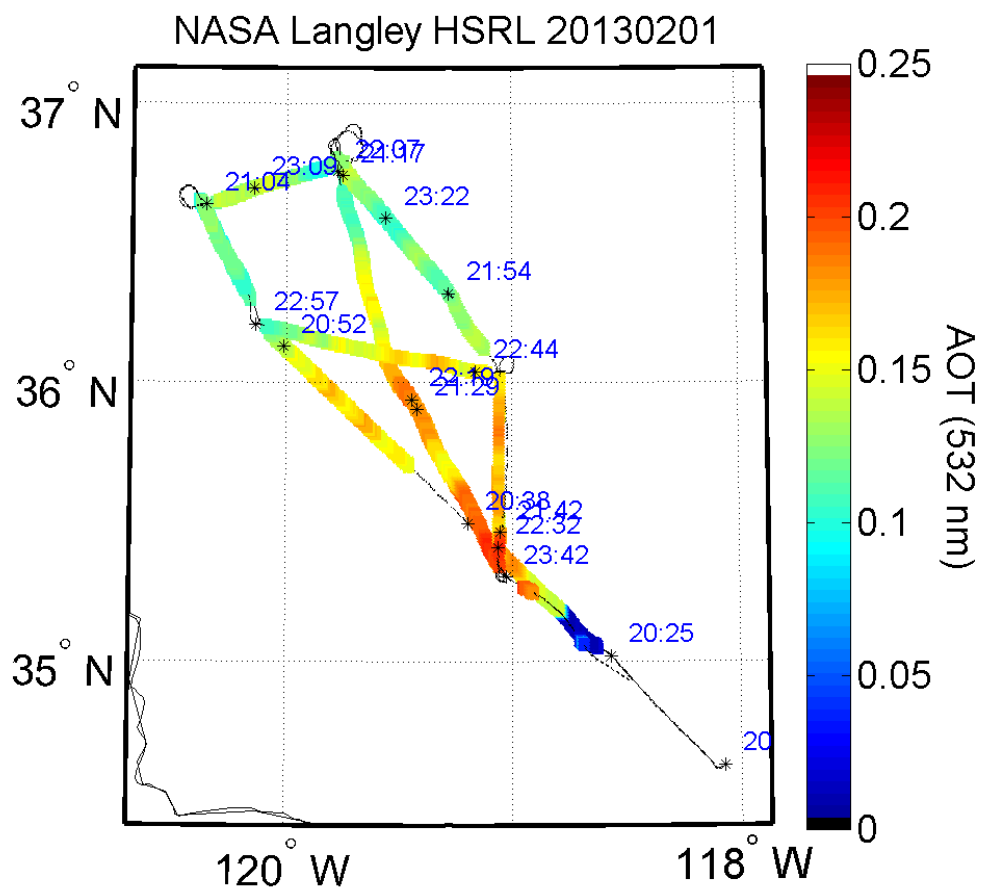
DURATION: 3.9 hours

SUMMARY:

Standard DAQ pattern over the SJV. Instrument operated nominally. Higher AOT in S end of valley with peak in Bakersfield.

SUMMARY PLOTS:



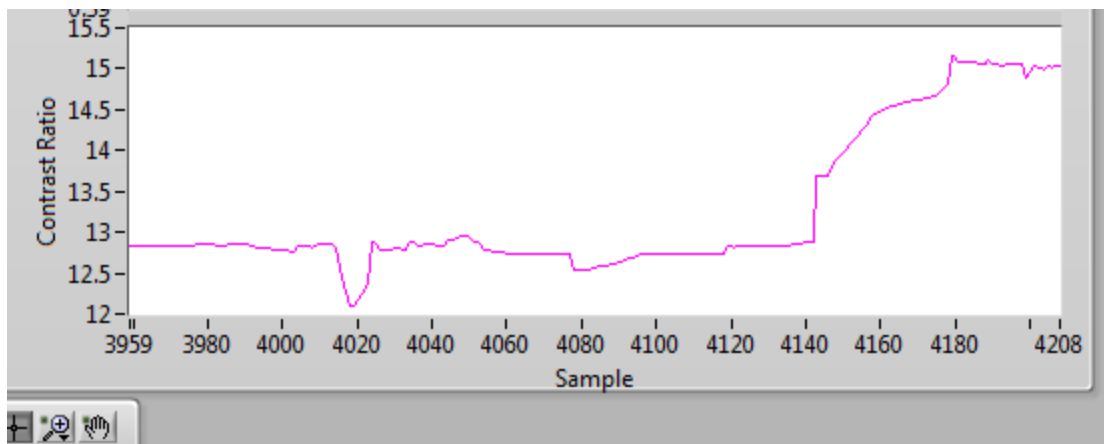


HSRL2 Flight Notes

Date: 2/1/2013

Flight # 2

- Takeoff at 20:13UTC.
- Moved the 355nm analyzer 2 deg away from the minimum in the positive direction to see effect on OAC.
- Chiller level is low.
- See figure below for increase in Contrast Ratio when performing PGR (note same behavior was seen when OAC was performed)



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- INTF in severe tilt for descent at 18:45UTC